

## Message Text

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12

ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 TRSE-00 EUR-12

ERDA-05 ISO-00 /025 W

----- 093559

R 251919Z MAR 75

FM USMISSION OECD PARIS

TO SECSTATE WASH DC 6195

C O N F I D E N T I A L OECD PARIS 07539

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM, GW, GE

SUBJECT: GERMAN SIGNAL GENERATOR TO GDR - IL 1529

REFS: A. SCOM DOC. (74) 425

B. STATE 0651

1. GERMAN DEL MAKES FOLLOWING REPLY TO QUESTION PUT IN  
REF. B: "WITH THE HELP OF HIGH FREQUENCY SPECTROSCOPY IT  
IS POSSIBLE TO IDENTIFY THE VARIOUS NUCLEAR ISOTOPES  
CONTAINED IN THE SAMPLE WHICH IS TO BE EXAMINED. IF A  
SAMPLE WHICH CONTAINS VARIOUS NUCLEI IS EXPOSED TO A  
CONSTANT MAGNETIC FIELD AND AT THE SAME TIME TO A HF  
FIELD, AT CERTAIN FREQUENCIES OF THE HF FIELD, S  
RESONANCES OCCUR WHICH SERVE FOR THE IDENTIFICATION OF  
THE NUCLEI AND, THUS, FOR THE ANALYSIS OF THE SUBSTRATE.  
IF THE FREQUENCY IS CONTINUOUSLY CHANGED (FOR TECHNOLO-  
GICAL REASONS A DISCONTINUOUS CHANGE IN SMALL INCREMENTS  
IS USED), AND IF THERE ARE VARIOUS NUCLEI, SO-CALLED  
NUCLEAR RESONANCE SPECTRA ARE ASCERTAINED. IN SPITE OF  
THEIR RELATIVELY HIGH ABSOLUTE VALUES (SHORT WAVE RANGE),  
NUCLEAR RESONANCES ARE KNOWN TO BE OFTEN ONLY A FEW  
HERTZ APART. THEREFORE, THE GENERATOR PRODUCING THE  
HIGH FREQUENCY FIELD MUST HAVE AT LEAST AN ADJUSTABILITY  
IN INCREMENTS OF CRYSTAL ACCURACY, REPRODUCIBILITY AND  
STABILITY OF NOT MORE THAN 1 HZ. THIS PRESUPPOSES ANY-  
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WAY THAT THE MAGNETIC FIELD, TOO, HAS A STABILITY OF

1 X 10 TO THE MINUS 9TH POWER."

2. ACTION REQUESTED: STATEMENT OF VIEWS ON OR BEFORE  
APRIL 8.  
TURNER

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NNN

## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** STRATEGIC TRADE CONTROLS, EXCEPTIONS LIST, ELECTRIC GENERATORS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 25 MAR 1975  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** RELEASED  
**Disposition Approved on Date:**  
**Disposition Authority:** GolinoFR  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1975OECDP07539  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** X1  
**Errors:** N/A  
**Film Number:** D750104-0943  
**From:** OECD PARIS  
**Handling Restrictions:** n/a  
**Image Path:**  
**ISecure:** 1  
**Legacy Key:** link1975/newtext/t19750318/aaaaapxr.tel  
**Line Count:** 66  
**Locator:** TEXT ON-LINE, ON MICROFILM  
**Office:** ACTION EB  
**Original Classification:** CONFIDENTIAL  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 2  
**Previous Channel Indicators:** n/a  
**Previous Classification:** CONFIDENTIAL  
**Previous Handling Restrictions:** n/a  
**Reference:** 75 SCOM DO(7425  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** GolinoFR  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 20 MAY 2003  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <20 May 2003 by GarlanWA>; APPROVED <21 MAY 2003 by GolinoFR>  
**Review Markings:**

Margaret P. Grafeld  
Declassified/Released  
US Department of State  
EO Systematic Review  
05 JUL 2006

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** N/A  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** GERMAN SIGNAL GENERATOR TO GDR - IL 1529  
**TAGS:** ESTC, GE, GC, US, COCOM  
**To:** STATE  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 05 JUL 2006